

CLAIMS:

1. An acrylic composition comprising an acrylic component selected from acrylic resins and precursors thereof and a nonparticulate zinc oxide UV
5 absorber wherein the acidity of the acrylic composition is less than 0.5g KOH per kilogram of resin solids.
2. An acrylic composition according to claim 1 wherein the zinc oxide component comprises at least 80% by weight of particles of size in the range of
10 from 10 to 100 nm.
3. An acrylic composition according to claim 2 wherein the zinc oxide component comprises at least 90% by weight in the range of from 10 to 50 nm.
- 15 4. A composition according to claim 1 wherein the zinc oxide is present in an amount of from loading 0.5%-50.0% by weight based on solids in acrylic resin.
5. An acrylic composition according to claim 1 where the acrylic component
20 is selected from the group consisting of resins and monomer compositions for preparation thereof where a significant fraction of the monomeric units are selected from the group consisting of acrylic and methacrylic esters.
6. An acrylic composition according to claim 1 wherein the acrylic
25 component comprises a high molecular weight thermoplastic acrylic resin.
7. An acrylic composition according to claim 1 wherein the acrylic component comprises a thermo setting acrylic resin or non-aqueous dispersion (NAD) acrylic which is a thermosetting solution.
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8. An acrylic composition according to claim 1 in the form of an oil in water emulsion.

9. An acrylic composition according to claim 1 where the acrylic component comprises copolymers of acrylate and/or methacrylate esters of organic alcohols with other unsaturated monomers capable of reacting by additional polymerisation in aqueous media.
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10. An acrylic composition according to claim 1 wherein the resin or precursor comprises acrylate and/or methacrylate ester monomers having alcohol portions selected from one or more of the groups of alkyl, hydroxyalkyl, alkoxyalkyl, alkylaminoalkyl and dialkylaminoalkyl.
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11. An acrylic composition according to claim 1 wherein the acrylic component is an acrylic polymer resin in an aqueous emulsion.
12. An acrylic composition according to claim 8 wherein the organic solids
- 15 content is in the range of 10-60%.
13. An acrylic composition according to claim 1 prepared by milling zinc oxide in the presence of dispersants selected from the group consisting of surfactants and hydroxylated organic compounds and mixing the milled zinc
- 20 oxide dispersion with acrylic emulsion having an acidity of less than 0.5g KOH per kilogram of resin solids.
14. A method of manufacture of a zinc oxide stabilized acrylic composition comprising forming an acrylic composition having an acidity of less than 0.5g
- 25 KOH per kilogram of resin solids and dispersing therein a nanoparticulate zinc oxide composition.
15. An acrylic composition according to claim 1 wherein the acrylic component is acrylic monomer of acidity less than 0.5g KOH per kilogram
- 30 resin and forms a coating on the nanoparticulate zinc oxide.
16. A method of forming a zinc oxide stabilizing agent for an acrylic composition comprising:

contacting the zinc oxide nanoparticles with an acrylic monomer to form a coating of the monomer on the zinc nanoparticulates;

polymerizing a monomer composition comprising acrylic monomer in the presence of the acrylic monomer coated zinc oxide nanoparticles to provide
5 zinc oxide encapsulated in acrylic resin wherein the acidity of the acrylic resin is less than 0.5 g KOH per kilogram of resin.

17. A coating composition comprising and acrylic composition according to claim 1 one or more components selected from the group consisting of
10 surfactants, defoamers, chain transfer agents, plasticisers initiators and stabilisers.

18. A coating composition according to claim 17 applied to textiles.